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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,328	12/31/2003	Mark E. Gardiner	59082US002	4686
32692 7:	590 03/22/2006		EXAMINER	
3M INNOVATIVE PROPERTIES COMPANY			KIM, ELLEN E	
PO BOX 33427 ST. PAUL, MI			ART UNIT PAPER NUMBER	
- · · · · · · · · · · · · · · · · · · ·			2874	· · · · · ·

DATE MAILED: 03/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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;	Application No.	Applicant(s)	—— <u>Ų</u>
·	10/750,328	GARDINER, MARK E	
Office Action Summary	Examiner	Art Unit	
	Ellen Kim	2874	
The MAILING DATE of this communicated for Reply	ation appears on the cover sh	eet with the correspondence addres	S
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAI - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun - If NO period for reply is specified above, the maximum statul - Failure to reply within the set or extended period for reply wil Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMN 37 CFR 1.136(a). In no event, however, ication. cory period will apply and will expire SIX (I, by statute, cause the application to bec	MUNICATION. may a reply be timely filed 6) MONTHS from the mailing date of this commuone ABANDONED (35 U.S.C. § 133).	
Status		-	
1)⊠ Responsive to communication(s) filed 2a)⊠ This action is FINAL. 2b 3)□ Since this application is in condition fo closed in accordance with the practice)☐ This action is non-final. r allowance except for forma		erits is
Disposition of Claims			
4)⊠ Claim(s) <u>1-5,7-14 and 16-22</u> is/are per 4a) Of the above claim(s) is/are 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1-5,7-14 and 16-22</u> is/are rejection is/are objected to 8)□ Claim(s) are subject to restriction	withdrawn from consideratio ected.		
Application Papers	*		•
9) The specification is objected to by the I 10) The drawing(s) filed on is/are: a Applicant may not request that any objection	a)□ accepted or b)□ objecte		
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to be			
Priority under 35 U.S.C. § 119		•	
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do	ocuments have been received ocuments have been received the priority documents have all Bureau (PCT Rule 17.2(a))	d. d in Application No been received in this National Stag	ge
Attachment(s)			
1) Notice of References Cited (PTO-892)		rview Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTC 3) Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date 	, o , o ,	er No(s)/Mail Date ce of Informal Patent Application (PTO-152 er:	!)

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DETAILED ACTION

This is responsive to Applicant's amendment filed on 12/23/05.

Response to Arguments

Applicant's arguments with respect to claims 1-5, 7-14, 16-22 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 5, 7-11, 13-14, 16-21 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Benson et al [USPAT 6,080,340].

Benson et al disclose retoreflective cube corner article comprising:

A first surface [bottom surface of layer 200 in fig. 15];

A structure surface opposite the first surface, the structured surface having an array of prism elements, the prism elements having generally parallel tips extending uninterrupted across the structure surface, the array of prism elements further comprising:

First prism elements having blunt tips 191 and bases, a width of the blunt tips being greater than 0% to less than about 40% of a width of the bases, the blunt tips

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being disposed at a first distance from a reference plane disposed between the first surface and the structured surface; and

Second prism elements having a sharp tip near 218, the sharp tips being disposed at a second distance from the reference plane, the second distance measuring less than the first distance.

In re claims 4 and 13, fig. 15 shows that the first prism elements comprise about 50 % of the array.

In re claims 5, 14, and 20, fig. 15 shows that first prism element is next to the second prism element. Therefore, it is clear that at least one second prism element is interleaved between a pair of first prism elements.

In re claim 7, Benson et al teach at column 3, lines 55-63 that the separation between the grooves are about 10 μ m, therefore, it is clear that the width of the blunt tip is about 10 μ m.

In re claims 8 and 10, since the separation between the grooves are about 10 μ m, the difference between the first and the second distance is about 5 μ m, and the sharp tip is recessed about 5 μ m from fig. 15.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 3, 12, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Benson et al [USPAT 6,080,340] as applied to claim 1 above, and further in view of Benson et al [USPAT 5,696,627].

Benson et al [USPAT 6,080,340] disclose every aspect of claimed invention except for the curved blunt tip.

Benson et al [USPAT 5,696,627] show the prior art having curved blunt tip.

It would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify the device to include the curved blunt tip for the purpose of desired light distribution. It is clear that this would improve the device.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

In formation regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

For all official patent application related correspondence for organizations reporting to the Commissioner of Patents:

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- Correspondence that is transmitted by facsimile must be directed to the central facsimile number, (703) 872-9306.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Further references of interest are cited on Form PLO-892, which is attachment to this office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen Kim whose telephone number is (571) 272-2349.

The examiner can normally be reached on Monday through Thursday.

Ellen E. Kim

Primary Examiner

March 15, 2006/EK